## DYNAMIC, AUTOMATED DOUBLE-ENDED SYSTEM AND METHOD FOR TESTING AND QUALIFYING METALLIC TELECOMMUNICATION LOOPS

## ABSTRACT

5 A multi-unit test system performs automated and dynamically alterable, double-ended testing of telephone lines, whose service is provided on copper cable pairs. A prescribed set of (e.g., twelve) individual tests are executed either from a hand-held measurement unit, or by a central office-resident 10 direct access test unit, or by a collaboration of the two. The hand-held measurement unit and the direct access test unit exchange FSK-based test control messages with one another that are effective to cause a selected electrical condition to be applied to a first 15 portion of the wireline and to cause a prescribed electrical measurement to be made at a second portion of the wireline.